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10/9
ngineer
ra Division
B.B.M.P.
50092 MS
10/9

496501

M. A. R. 57 (Rule 116)
Measurement Book

No. B

first and final bill:-

Serial No. Premeasurements:-

Name of Work Improvements to drains of 7th to 10th cross roads of Jakkur layout in ward no.07, byatarayanapura. From ..... To .....

Name of Contractor of nature of Agency M/s. KRIDL

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Est cost:-	50.00 lakhs					
	Job number:-	007-18-000006					
	Head of account:-	P2652					
	A.S.NO:-	DS/EE/BTP/134/17-18, dt: 22.12.17					
	T.S.NO:-	TS/CE(YNK)/156/17-18, dt: 12.01.18					
	Agr no:-	NO.EE/BTP/WO/84/17-18, dt: 02.03.18					
	Work order no:-	NO.BBMP/EE/BTP/84/17-18, dt: 03.03.18					
	Work order amount:-	Rs. 4998569/-					

OOK

Depth 6	Contents 7	Reference to last Measurement 8
0.60	= 66.00	
	373.20 sqm	
0.60	= 72.0	
0.60	= 72.0	
0.60	= 72.0	
0.60	= 72.0	
0.60	= 63.60	
	351.60 sqm	
0.60	= 72.0	
0.60	= 72.0	
	144.0 sqm	
=	1680.00 sqm	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496510

Serial No. MAIN - BILL:
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 01:- Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 1.5m excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specification.						
	Qty vide page no. 496503 → 492.15 cum						
	At the rate of Rs. 86.92 →						42777.68

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 02:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms, th well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete.,						
	Qty vide page no. 49.6505 → 99.47 cum						
	At the rate of Rs. 5159.02 →						513167.70
	Item No. 04:- Providing TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	N
	Loire and anchoring to complete as per design.	
	Qty vide page no	
	At the rate of Rs.	
	Item No. 05:- Providing and	
	columns, pillars, piers, a	
	slab / sidewalls polygon	
	complete as per specifie	

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
ion	plain cement concrete of		
down size graded granite			
d in layers not exceeding 15cms,			
plinth, including cost of all			
y., curing complete.;			
→ 99.47 cum			513167.70
→			
for RCC work including			
coting, placing in position,			
required, tying with binding			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496511

Serial No. ..... From..... To.....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	wire and anchoring to the adjoining members wherever ~~requi~~ necessary complete as per design.						
	Qty vide page no. 496508 → 11.23 tonne						721453.60
	At the rate of Rs. 64243.42 →						
	Item No. 05:- Providing and removing centering, shuttering, propping etc. for columns, pillars, piers, abutments, post and struts, square/rectangular slab/sidewalls polygon in plan including cost of materials, labour complete as per specification and directions of the engineer-in-charge.						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty vide page no.	496509 →		1675.20 sqm			649910.60
	At the rate of Rs. 387.96 →						
Item. No 03:-	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm & down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3 lts conforming to IS 9103-1999. machine mixed, concrete laid in layers not exceeding 15cms-th.,						
	4th 'B' cross-RHS: 0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
						6.76	

C&F.C. 18/01

n.e.(w.o.)

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date 1	Full description, etc, of work 2
	60-7
	74-1
	104-1
	C&F.C. 18/01
	n.e.(w.o.)
	8th 'A' cross-LHS: 0-
	30-
	60-9
	90-1
	8th 'A' cross-RHS: 0-
	30-

Contents 7	Reference to last Measurement 8
sqm	649910·60
yforced cement concrete with 20mm & down es @ 0·878 cum and plastizers @ 3 lts d, concrete laid in	
0·15 = 3·38	
0·15 = 3·38	
6·76	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496512

Serial No. ..... From ..... To .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 6.76 7	Reference to last Measurement 8
	60-74	01	14·0	0·75	0·15	= 1·58	
	74-104	01	30·0	0·75	0·15	= 3·38	
	104-114	01	10·0	0·75	0·15	= 1·13	
						12·83 cum	
	8th 'A' cross - LHS: 0-30	01	30·0	0·75	0·15	= 3·38	
	30-60	01	30·0	0·75	0·15	= 3·38	
	60-90	01	30·0	0·75	0·15	= 3·38	
	90-112	01	22·0	0·75	0·15	= 2·48	
						12·60 cum	
	8th 'A' cross - RHS: 0-30	01	30·0	0·75	0·15	= 3·38	
	30-60	01	30·0	0·75	0·15	= 3·38	
						32·19	

CR/FC: 18/01

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						32.19	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-112	01	22.0	0.75	0.15	= 2.48	
						12.60 cum	
	7th 'B' cross - LHS:	01	30.0	0.75	0.15	= 3.38	
	RHS:	01	30.0	0.75	0.15	= 3.38	
						6.75 cum	
	6th 'B' cross:	01	41.0	0.75	0.15	= 4.61	
		01	27.0	0.75	0.15	= 3.04	
	5th 'B' cross	01	27.5	0.75	0.15	= 3.09	
						10.74 cum	
	8th 'B' cross - LHS: 0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
						62.31	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2
	60-90
	90-120
	120-146.5

DOOK

th	Depth 6	Contents 7 (32.19)	Reference to last Measurement 8
5	0.15	= 3.38	
5	0.15	= 2.48	
		12.60 cum	
5	0.15	= 3.38	
5	0.15	= 3.38	
		6.75 cum	
5	0.15	= 4.61	
15	0.15	= 3.04	
15	0.15	= 3.09	
		10.74 cum	
75	0.15	= 3.38	
75	0.15	= 3.38	
		62.31	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496513

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7 (62.31)	Reference to last Measurement 8
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-146.5	01	26.50	0.75	0.15	= 2.98	
						16.48 cum	
		01	30.0	0.75	0.15	= 3.70	
		01	30.0	0.75	0.15	= 3.80	
						6.75 cum	
				Total =		78.75 cum	
						158.30	

Ckfl
18/01

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7 (158.30)	Reference to last Measurement 8
	Sidewall:- 4th 'B' cross-LHS	1x2=2	30.0	0.15	0.60	= 5.40	
	30-60	1x2=2	30.0	0.15	0.60	= 5.40	
	60-74	1x2=2	14.0	0.15	0.60	= 2.52	
	74-104	1x2=2	30.0	0.15	0.60	= 5.40	
	104-114	1x2=2	10.0	0.15	0.60	= 1.80	
						20.52 cum	
	8th 'A' cross-LHS: 0-30	1x2=2	30.0	0.15	0.60	= 5.40	
	30-60	1x2=2	30.0	0.15	0.60	= 5.40	
	60-90	1x2=2	30.0	0.15	0.60	= 5.40	
	90-112	1x2=2	22.0	0.15	0.60	= 3.96	
						20.16 cum	
	8th 'A' cross-RHS: 0-30	1x2=2	30.0	0.15	0.60	= 5.40	
	30-60	1x2=2	30.0	0.15	0.60	= 5.40	
	60-90	1x2=2	30.0	0.15	0.60	= 5.40	
						215.18	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date 1	Full description, etc, of work 2
	90-11
	7th 'B' cross -
	6th 'B' cross
	5th 'B' cross:

Contents 158.30 7	Reference to last Measurement 8
= 5.40	
= 5.40	
= 2.52	
= 5.40	
= 1.80	
20.52 cum	
= 5.40	
= 5.40	
= 5.40	
= 3.96	
20.16 cum	
= 5.40	
= 5.40	
= 5.40	
215.18	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496514

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	99-112	1x2=2	22.0	0.15	0.60	= 3.96	
						20.16 cum	
	7th 'B' cross -	01x2=2	30.0	0.15	0.60	= 5.40	
		01x2=2	30.0	0.15	0.60	= 5.40	
						10.80 cum	
	6th 'B' cross	1x2=2	41.0	0.15	0.60	= 7.38	
		1x2=2	27.0	0.15	0.60	= 4.86	
	5th 'B' cross:	1x2=2	27.5	0.15	0.60	= 4.95	
						17.19 cum	
						247.13	

C.E.C.
18/01

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7 (247.13)	Reference to last Measurement 8
	8th 'B' cross: LHS: 0-30	1x2=2	30.0	0.15	0.60	= 5.40	
	30-60	1x2=2	30.0	0.15	0.60	= 5.40	
	60-90	1x2=2	30.0	0.15	0.60	= 5.40	
	90-120	1x2=2	30.0	0.15	0.60	= 5.40	
	120-146.5	1x2=2	26.50	0.15	0.60	= 4.77	
						26.37 cum	
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	
						10.80 cum	
				Total =		126.00 cum	284.30
				Grand total =		204.75 cum	
	Qty tld to 204.17 cum At the rate of Rs. 6371.66 →						1300901.80

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2
	Item No. 07:- Providing and reinforced cement conc size including centeri machine mixed concrete
	4th 'B' cross - RHS
	8th 'A' cross - LHS
	8th 'A' cross - RHS
	7th 'B' cross - LHS
	RHS

Contents 7	Reference to last Measurement 8
Σ47.13	
5.40	
5.40	
5.40	
5.40	
4.77	
26.37 cum	
5.40	
5.40	
10.80 cum	
126.00 cum	
284.3	
.75 cum	
	1300901.80

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496515

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.07:- Providing and fixing 10cms-th. precast RCC covering slab using reinforced cement concrete 1:1:2 with stone aggregate 20mm and down size including centering, shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm-th.,						
	4th 'B' cross - RHS	190	0.60	-	0.75	= 85.50	
	8th 'A' cross - LHS	190	0.60	-	0.75	= 85.50	
	8th 'A' cross - RHS	190	0.60	-	0.75	= 85.50	
	7th 'B' cross - LHS	55	0.60	-	0.75	= 24.75	
	RHS	55	0.60	-	0.75	= 24.75	
		55	0.60	-	0.75	= 24.75	
						330.75	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7 (330.75)	Reference to last Measurement 8
	6th 'B' cross	75	0.60	-	0.75 =	33.75	
		55	0.60	-	0.75 =	24.75	
	5th 'B' cross	52	0.60	-	0.75 =	23.40	
	8th 'B' cross - LHS	246	0.60	-	0.75 =	110.70	
						523.35 sqm	
							1099035.00
	AL - the rate of Rs.		2100.00 →				
	Item No. 06.- Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregate @ 0.459 cum machine mixed concrete laid in layers not exceeding 15 cms, thick, well compacted.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date 1	Full description, etc, of work 2
	Ramps to drain:
	4th 'B' cross - RHS
	8th 'A' cross - LHS
	8th 'A' cross - RHS
	7th 'B' cross - LHS
	- RHS
	6th 'B' cross
	5th 'B' cross
	8th 'B' cross - LHS

OK

Depth 6	Contents 330.75 7	Reference to last Measurement 8
0.75	= 33.75	
0.75	= 24.75	
0.75	= 23.40	
0.75	= 110.70	
	523.35 sqm	
		1099035.00

plain cement concrete of
m and down size graded
0.69 cum and fine
ed concrete laid in layers
pacted.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496516

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Ramps to drain:						
	4th 'B' cross - RHS	01	100.0	0.30	0.12	= 3.60	
	8th 'A' cross - LHS	01	100.0	0.30	0.12	= 3.60	
	8th 'A' cross - RHS	01	100.0	0.30	0.12	= 3.60	
	7th 'B' cross - LHS	01	20.0	0.30	0.12	= 0.72	
	- RHS	01	20.0	0.30	0.12	= 0.72	
		01	20.0	0.30	0.12	= 0.72	
	6th 'B' cross	01	30.0	0.30	0.12	= 1.08	
	5th 'B' cross	01	20.0	0.30	0.12	= 0.72	
	8th 'B' cross - LHS	01	20.0	0.30	0.12	= 0.72	
		01	115.0	0.30	0.12	= 4.14	
						19.62	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						= 19.62 cum	
	At the rate of Rs.		5767.46 →				113157.55
Item No 08:-	Providing and fixing MS grating 260x260mm.						
	4th 'B' cross - RHS	05	-	-	-	= 5	
	8th 'A' cross - LHS	05	-	-	-	= 5	
	8th 'A' cross - RHS	02	-	-	-	= 02	
	7th 'B' cross - LHS	03	-	-	-	= 03	
	RHS	01	-	-	-	= 01	
		04	-	-	-	= 04	
	6th 'B' cross	02	-	-	-	= 02	
	5th 'B' cross	03	-	-	-	= 03	
	8th 'B' cross - LHS	05	-	-	-	= 05	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date 1	Full description, etc, of work 2
	At the rate o
Item No 09:-	loading o
	Qty ride ite
	At the rate

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15/12/18

OK

Depth 6	Contents 7	Reference to last Measurement 8
=	19.62 cum	113157.55
	260x260mm.	
-	= 5	
-	= 5	
-	= 02	
-	= 03	
-	= 01	
-	= 04	
-	= 02	
-	= 03	
-	= 05	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496517

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

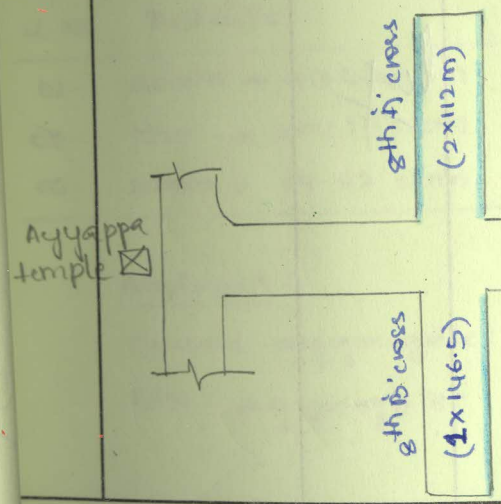
Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						= 30nos	
	At the rate of Rs. 94.34 →						2830.20
	Item No. 09:- loading and unloading charges:						
	Qty vide item no. 01 → 492.15 cum						
	At the rate of Rs. 106.00 →						52167.50
						Total ⇒	4495402.08

Cente
Dee 15/12/18

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Add 10% KRIDL charges =				449540.21		
	Add 1% labour cess charges =				44954.02		
	Total:				4989896.30		
	Abstp W/f. N.D AE(W) 15/12/18					Ker 15/12/18	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2
	

OOK

Depth 6	Contents 7	Reference to last Measurement 8
9540.21		
4954.02		
89896.30		
N.D		
12/18		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496518

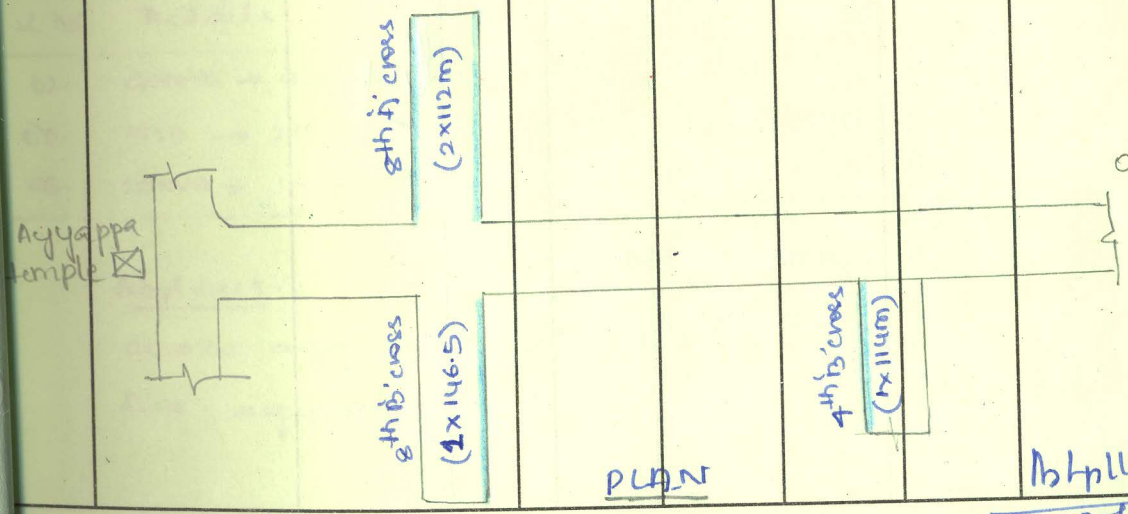
Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8



INDEX
Rec-drain

N.D
DE(LA)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	certificate:-						
	1). certified that the beneficiary has completed the work						
	2). certified that debris has been removed from the work spot.						
	Abhilash.N.D AE(HZ)						

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Serial No. Royalty charges
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2
Sl. No	Details
02.	40mm → 99.47 cum
03.	M20 → 204.17 cum
06.	20mm → 19.62 cum
	Abstract:-
	coarse-aggregate
	fine-aggregate

OOK

	Depth 6	Contents 7	Reference to last Measurement 8
		completed the work	
		from the work spot.	

Engineer
-Division
galore

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496519

Serial No. Royalty charges:
Name of Work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		coarse		fine			
Sl. No	Details	co-eff	qty	co-eff	qty.		
02.	40mm → 99.47 cum	0.96	95.49	0.48	47.75		
03.	M20 → 204.17 cum	0.85	173.55	0.415	84.93		
06.	20mm → 19.62 cum	0.90	17.66	0.45	8.83		
			286.70		141.51		
	Abstract:-						
	coarse-aggregate:	286.70 x 105 / cum =			30103.50		
	fine-aggregate:	141.51 x 103 / cum =			14575.50		
					44679.00		

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						Total Rs: 4989896-00	
						IT - 99798-00.	
						CGS - 49899-00	
						CBF. 4990-00	
						FSD - 249495-00	
						LR - 24679-00	
						CGST - 44553-00	
						SGST - 44553-00	
						Fine - 3244-00	
						Adju: 521211-00	
						Cheque: 4468685-	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 49,89,896-00
ಗಳ ಮಾಡಿ ಮುಂಗಡ ಇದರಲ್ಲಿ ರೂ 521211-00
4468685-00
ಉಳಿದ ಮೊಬಲಗು
Rs: Forty four lakhs sixty eight thousand six hundred eighty five only.
ಮೇಲ್ವಿಚಾರಣೆಯಲ್ಲಿ

ಲೆಕ್ಕಾಧಿಕಾರಿ
ಬೃಹತ್ ನೀರಾವರಿ ವಿಭಾಗ
ಬೃ. ನೀ. ಇ. ವಿಭಾಗ

ಕಾ. ಪಾ. ಅ.
ಬೃಹತ್ ನೀರಾವರಿ ವಿಭಾಗ
ಬೃ. ನೀ. ಇ. ವಿಭಾಗ

18/01

first and final bill:-
Serial No. Premeasurements
Name of Work Construction of R
Name of Contractor of nature of Agency
Date of commencement of work ↳ M

Date 1	Full description, etc, of work 2
	Est cost:-
	Job code:-
	Head of account:-
	M.S.No:-
	T.S.No:-
	Agr No:-
	Work order no:-
	Work order amount:-